

Barclay

PLANT PROTECTION

Seismic WG

Contains 700 g/kg **METAMITRON** as a water dispersible granule.

PCS NO. N01327

PROTECT FROM FROST

See inside for DIRECTIONS FOR USE
See inside for CONDITIONS OF SUPPLY

VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT



For use only as an agricultural contact and residual herbicide for the selective pre-emergence and post-emergence control of annual broad-leaved weeds in sugar beet, fodder beet, mangels and red beet.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.
WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES.
WASH HANDS AND EXPOSED SKIN BEFORE MEALS AND AFTER WORK.
DO NOT CONTAMINATE PONDS, WATERWAYS OR DITCHES WITH CHEMICAL OR USED CONTAINER.
DO NOT RE-USE CONTAINER FOR ANY PURPOSE AND DISPOSE OF SAFELY.
SAFETY DATA SHEET AVAILABLE FOR PROFESSIONAL USERS ON REQUEST.
TO AVOID RISKS TO MAN AND THE ENVIRONMENT, COMPLY WITH THE INSTRUCTIONS FOR USE.

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may cause long term adverse effects in the aquatic environment

PCS No.: N01327



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PROTECT FROM FROST

DIRECTIONS FOR USE

Barclay Seismic WG has both direct foliar contact activity and residual soil activity against weeds; the latter resulting from root uptake of metamitron from the soil solution. The residual activity and overall efficacy of Barclay Seismic WG depends upon the cumulative dose applied most particularly on mineral soils. Maximum residual activity is obtained only when the full sequence of recommended applications is made and there is adequate soil moisture.

Crops:	Sugar beet, fodder beet, mangels and red beet.
Maximum individual dose:	5kg product per ha
Maximum total dose:	7kg product per ha per crop
Maximum no. of applications	1 at full rate

SINGLE SPRAY TREATMENTS

Crop: Sugar beet, fodder beet, mangels and red beet.
Soils: Mineral soils with less than 10% organic matter.

CROP STAGE	WEED STAGE	DOSE	METHOD and REMARKS
Before sowing	Before weed emergence.	5 kg in 200 l/ha water	Incorporate into the top 2.5 cm of soil.
Before crop emergence	Pre-emergence to the early cotyledon stage.	5 kg in 200 l/ha water	Apply as an overall spray or in a band in 240 litres water per ha of band
Post emergence, not earlier than the first pair of true leaves each at least 10mm long.	Ideally at the cotyledon stage, but effective up to 2 true leaves under good conditions.	5 kg in 200 l/ha water	Apply as an overall spray or in a band in 240 litres water per ha of band. Efficacy on the advanced weeds or under dry conditions is improved by the addition of Barclay Actol at 5 l/ha

REPEAT LOW-DOSE TREATMENTS (MINERAL SOILS)

Crop: Sugar beet, fodder beet, mangels and red beet.
Soils: Mineral soils with less than 10% organic matter.

CROP STAGE	WEED STAGE	DOSE	METHOD and REMARKS
Pre-sowing or pre-emergence	Before weed emergence.	3 kg in 200 l/ha water.	Incorporate pre-sowing to 2.5 cm depth or spray pre-emergence.

Base Application: Barclay Seismic WG

Pre-sowing or pre-emergence	Before weed emergence.	3 kg in 200 l/ha water.	Incorporate pre-sowing to 2.5 cm depth or spray pre-emergence.
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Subsidiary Application Option A: Barclay Seismic WG alone

Use at any stage	Early cotyledon stage.	1.7 kg in 80 - 100 l/ha water. Add Barclay Actol at 1.7 l/ha	Time each spray to strike each new flush of weeds.
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Subsidiary Application Option B: Barclay Seismic WG with Barclay Crossbar 114

Use from the fully expanded cotyledon stage.	Early cotyledon stage to not later than the fully expanded cotyledon stage.	Barclay Seismic WG at 1.5 kg/ha plus Barclay Crossbar 114 at 2.5 l/ha in 80-100 l/ha water	Gives improved control of black-bindweed. Normally needed just once within the programme.
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Subsidiary Application Option C: Barclay Seismic WG with Barclay Keeper 200

Use not earlier than the first pair of true leaves each at least 10mm long.	Fully expanded cotyledon to the one true-leaf stage	Barclay Seismic WG at 1.5 kg/ha plus Barclay Keeper 200 at 1.7 l/ha in 80-100 l/ha water.	Gives improved control of annual meadow-grass and cleavers. Normally needed just once within the programme.
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Apply the base application and follow with up to three subsidiary applications, chosen from **Options A, B or C** above as appropriate to the conditions, to effect optimum weed control. If the base application is not employed then up to five subsidiary applications may be made. The programme should be continued, within the Statutory Conditions, with a further application at 7-10 days after the last-to-date spray, to control any weeds surviving the last-to date spray, even if no fresh weed emergence has occurred.

REPEAT LOW-DOSE TREATMENTS (ORGANIC SOILS)

Crop: Sugar beet, fodder beet, mangels and red beet.
Soils: Soils with 10% or more organic matter.

CROP STAGE	WEED STAGE	DOSE	METHOD and REMARKS
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OPTION 1: Barclay Seismic WG alone.

Use at any stage.	Early cotyledon stage	1.7 kg in 80-100 l/ha water. Add Barclay Actol at 1.7 l/ha	Time each spray to strike each new flush of weeds.
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OPTION 2: Barclay Seismic WG alone. Higher rate to control more advanced weeds.

Use not earlier than the first pair of true leaves each at least 10mm long.	Weeds with up to one true leaf.	2.5kg in 80-100 l/ha water. Add Barclay Actol at 2.5 l/ha.	Normally used not more than once in a programme.
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OPTION 3: Barclay Seismic WG with Barclay Crossbar 114

Use from the fully expanded cotyledon stage.	Early cotyledon stage to not later than the fully expanded cotyledon stage.	Barclay Seismic WG at 1.5 kg/ha plus Barclay Crossbar 114 at 2.5 l/ha in 80-100 l/ha water	Gives improved control of black-bindweed. Normally needed just once within the programme.
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Option 4: Barclay Seismic with Barclay Keeper 200

Use not earlier than the first pair of true leaves each at least 10mm long.	Fully expanded cotyledon to the one true-leaf stage	Barclay Seismic WG at 1.5 kg/ha plus Barclay Keeper 200 at 1.7 l/ha in 80-100 l/ha water.	Gives improved control of annual meadow-grass and cleavers. Normally needed just once within the programme.
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Apply a treatment or combination of treatments chosen from the options above as appropriate to the conditions, to effect optimum weed control. Do not apply more than 7 kg/ha Barclay Seismic WG in total to the crop. Supplementation of the spray programme with other treatments may be necessary to effect a high level of weed control.

WILD OAT CONTROL

On mineral soils Barclay Seismic WG at 3 kg/ha may be tank-mixed with the recommended rate of triallate and incorporated prior to drilling for wild-oat and partial broad-leaved weed control. Follow the recommendations of the partner product concerning rates of application and incorporation. Subsidiary applications of Barclay Seismic WG must then be made (see REPEAT LOW-DOSE) to achieve full broad-leaved weed control.

On organic soils Barclay Seismic WG may follow applications of triallate, made before drilling, after the beet have reached the two true-leaf stage.

An approved formulation of diclofop-methyl may be used following pre-sowing or pre-emergence applications of Barclay Seismic WG.

Soil and Weather Conditions

Best results are obtained where seedbeds are fine, firm and moist. Weather extremes following treatment, particularly frost, may cause loss of crop vigour from which the crop may not fully recover.

Soil Textures

All soil textural groups except SANDS (ADAS Soil Texture, [85 System]) may be treated with Barclay Seismic WG.

Compatibility

Barclay Seismic WG is compatible in tank-mix with the Barclay range of trace elements and the undermentioned products. When using tank-mixes follow the recommendations of the partner product together with the directions of this label. Mix Barclay Seismic WG in the tank before adding the partner product
Barclay actol(Paraffinic Oil)
Barclay Keeper 200(Ethofumesate)
Barclay Crossbar 114(Phenedipham)
Clopyralid
Triallate

Mixing

Half fill the spray tank with water. With the re-circulation system in action, slowly pour the required quantity of product granules into the tank. Top up the tank with water. Maintain re-circulation during spraying and temporary stoppages and until tank is sprayed out.

Application

Do not use filters finer than 80 mesh. Do not exceed 8 kph (5 mph) whilst spraying.

SINGLE SPRAY APPLICATION

Apply as a MEDIUM spray in 200 l/ha.

LOW-DOSE APPLICATIONS

Apply as a FINE spray in 80-100 l/ha at 3-5 bar.

Band Application

(Practicable for single spray treatments only)

Row spacing (cm)	46	50	54	60
Hectares covered by 240 litres in 18cm band	2.6	2.8	3.0	3.3

Check the band width for accuracy at regular intervals otherwise incorrect application will result

Stress Factors

When a crop is suffering from any stress, such as may be induced by other pre-emergence or post emergence herbicides, nutritional disorder, soil acidity, high light intensity, high temperatures, frost, moisture stress or excess wind, pest or disease attack, or any other factor, application of Barclay Seismic WG, more particularly with adjuvant oil, may cause marginal leaf scorch and/or a check to growth possibly leading to some loss of yield. This condition is likely to be accentuated by the use of other herbicides within the same programme.

WEED CONTROL

Susceptible	Moderately Susceptible	Moderately Resistant	Resistant
Chickweed, common	Charlock	Black-bindweed	Cleavers
Fat-hen *	Fumitory, common	Nightshade, black * (+)	Wild-oat
Field-speedwell, common	Redshank	Pimpernel, scarlet (+)	
Groundsel*		Radish, wild * (+)	
Knotgrass*			
Marigold, corn			
Mayweed, scentless			
Meadow-grass, annual			
Nettle, small			
Penny-cress, field			
Poppy, common			
Shepherd's-purse			
Spurrey, corn			

* Moderately Susceptible when applied post-emergence.

(+) Resistant in Low-Dose programmes.

For weed sizes controlled see WEED STAGE in the tables.

SUCCEEDING CROPS

In the event of crop failure for any reason or early harvest, no crop other than sugar beet, fodder beet, mangels or red beet may be sown or planted within 4 months of treatment with Barclay Seismic WG. Plough at least 15cm (6") deep and thoroughly cultivate to disperse herbicide residues before sowing or planting to a succeeding crop. Winter cereals may then be sown 4 months after treatment or any crop in the following spring. Check also the corresponding label statement of any product used in a tank-mix.

SOIL CATEGORIES ADAS Soil Texture (85 system)

Sands	Very Light & Light Soils	Medium Soils	Heavy Soils
Coarse sand	Loamy sand	Sandy clay loam	Sand clay
Sand	Loamy fine sand	Clay loam	Clay
Fine sand	Coarse sandy loam	Silty clay loam	Silty clay
Loamy coarse sand	Sandy loam		
	Fine sandy loam		
	Fine sandy loam		
	Sandy silt loam		
	Silt loam (85)		

Conditions of Supply

All goods supplied by us are of high grade and we believe them to be suitable but as we cannot exercise control over their storage handling mixing or use or of the weather conditions before during and after application which may affect the performance of the goods all conditions and warranties statutory or otherwise as to the quality or fitness for any purpose of our goods are excluded and no responsibility will be accepted by us or resellers for any failure in performance damage or injury whatsoever arising from their storage handling application or use, these conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.

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